

From: Chang, Steven Y <steven.chang@doh.hawaii.gov>
Sent: Friday, January 28, 2011 7:54 AM
To: Whelan, Joseph <JWhelan1@wm.com>
Cc: Ichinotsubo, Lene K <lene.ichinotsubo@doh.hawaii.gov>; Yamada, Stuart H <stuart.yamada@doh.hawaii.gov>; kabei.arlene@epa.gov; Armann.steve@epa.gov
Subject: FW: Severe Storm Damage Evaluation and Certification of MSW Cell E6, WGSL for MSW Placement
Attach: WGSL Severe Storm Damage Report_012711.pdf; Cell E6 MSW Area 1-26-11.pdf

Joe,

I received AECOM's attached documents earlier this evening. We understand that the disturbed or damaged liner system, including the GCL and geomembrane layers, and the drainage and operational layers, have been restored to spec requirements. The liner and leachate collection systems outside of the repaired area but within the designated area to be used were deemed not disturbed based on the CQA officer's evaluation. We acknowledge that the leachate collection and removal system is not operational, and the sump discharge risers may still be submerged in mud. While we do not condone use of the cell without an operating leachate collection and removal system, we understand that under the present circumstances, your choices are very limited, and that the extraordinary measures must be taken in the interest of maintaining public health and safety. An assessment of the condition of the leachate removal components, including discharge risers and pumps, will need to be made and appropriate corrective actions taken to restore the system to spec requirements as soon as possible.

In summary, we understand that this assessment and repair completion report certifies that the portion of Cell E6 and E4 as depicted in the included drawing has been determined to be in compliance with applicable specs and requirements, and will not cause a violation of environmental requirements.

DOH has no adverse comments on the submitted AECOM report, and sees no reason to hold up commencement of waste placement in the certified portion of Cell E6. DOH has the following comments on operational issues.

- a. The area designated for waste filling is a deviation from the waste filling sequence specified in the applicable construction drawings for Cells E5 through E8. WMH shall ensure that stability of the landfill and interim fill slopes are monitored and approved by the Design Engineer.
- b. We understand that the select waste layer in the area of liner repair will be placed after the cell is re-opened in accordance with permit requirements.
- c. All landfill operations and activities shall be in conformance with the issued solid waste management permit.

If there are any questions regarding this email, please contact me at 291-5171 (cell) tomorrow morning after 8am

From: Boyle, Ron [mailto:Ron.Boyle@aecom.com]
Sent: Thu 1/27/2011 8:46 PM
To: Chang, Steven Y
Cc: Whelan, Joseph; jfrey@wm.com; JLottig@wm.com
Subject: Severe Storm Damage Evaluation and Certification of MSW Cell E6, WGSL for MSW Placement

Aloha Steve,

On behalf of Waste Management of Hawaii, please find attached a Storm Damage Evaluation Report and certification that MSW can be placed in the designated area of MSW Cell E6 at the Waimanalo Gulch Landfill.

Also attached is a figure indicating the area that can be filled in. As agreed by Waste Management of Hawaii, they will keep away from the western slope area of E6 so that a damage assessment and repairs can be

completed for this area. To further explain: the attached figure represents the original as-built grades of the liner system (top of operations layer) before any MSW was placed and the setback from liner toe of slope will be a minimum of 25 feet. AECOM's January 26, 2011 CQA report recommended that filling be kept 50 feet away from the liner slope at current MSW grades, which is essentially equivalent to what's shown on the attached figure. The reason for the setback is to allow sufficient room to complete liner repairs should the damage extend down to the toe of liner system slope.

Please let me know if you have any questions or concerns.

Thank you.

Ron Boyle, P.E.

Senior Engineer, Environment

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